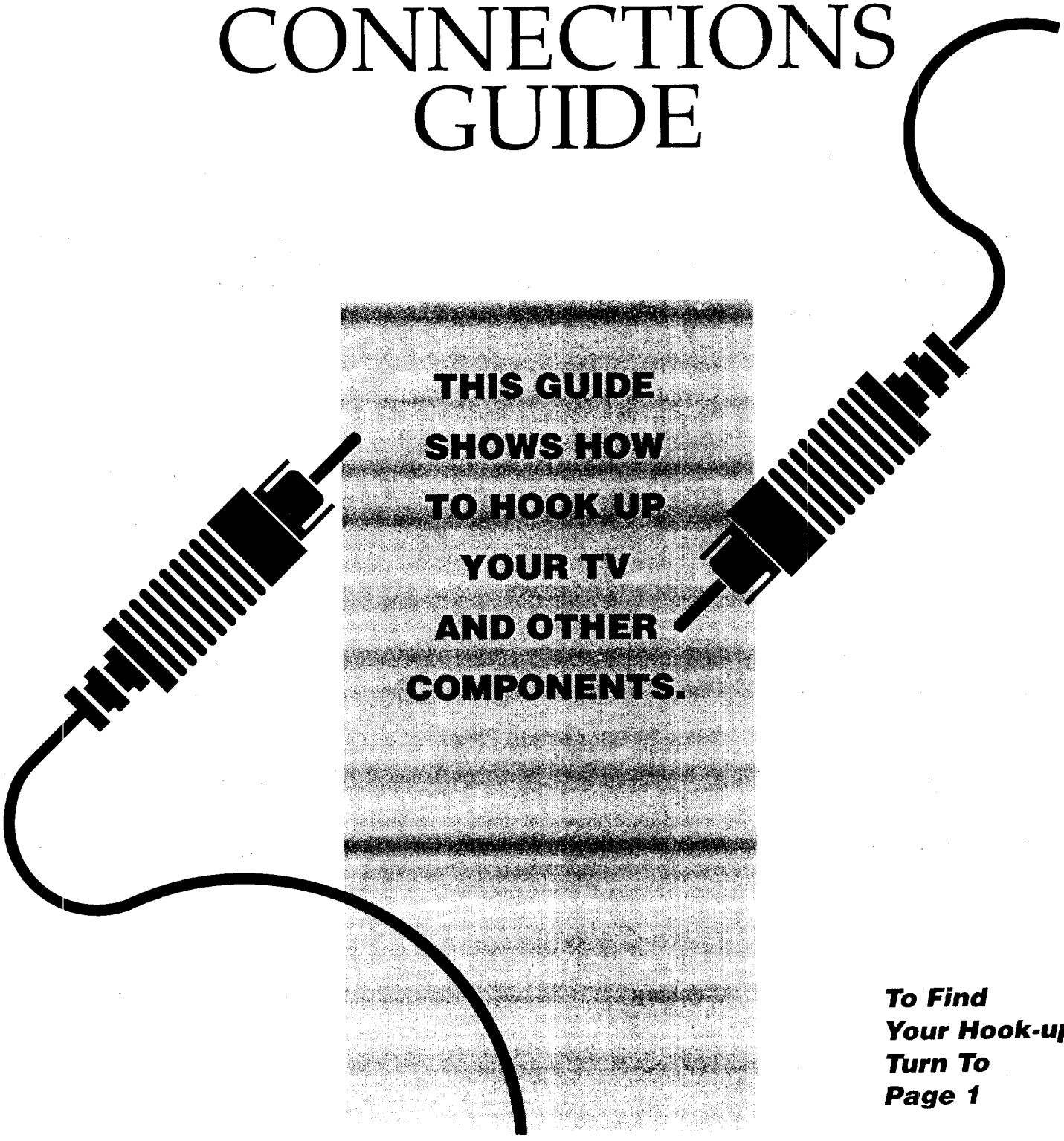
Use This Book First!

CONNECTIONS GUIDE



To Find Your Hook-up Turn To Page 1

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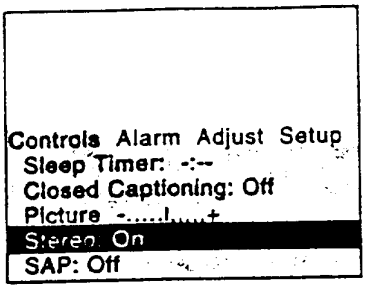
User's Guide Change(s)

Date: 4/6/94
Part Number: 1Q57 502-01A

1. Your User's Guide does not show you how to use the Expanded Stereo feature. Expanded stereo adds greater width and dimension to stereo broadcasts creating a more spacious stereo sound effect. Please follow the directions below to turn on Expanded Stereo. Refer to the "Sound Settings" in the User's Guide for further explanation of the stereo options.

1. Select the Controls Menu

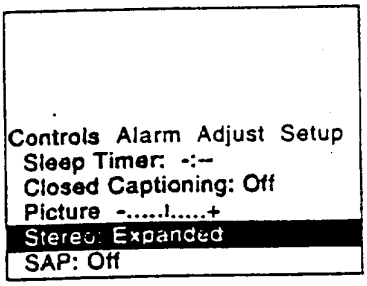


Press MENU•PROG to select the Controls menu. This menu is yellow.

2. Highlight Stereo

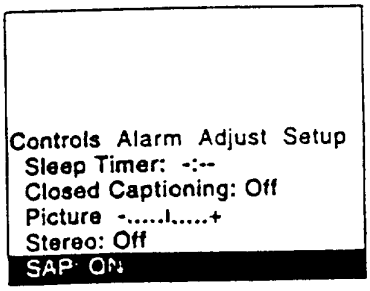
Press MOVE ▼ (down) to highlight Stereo

3. Use MOVE ▶ or ◀ switch to Expanded Stereo.



Press MOVE ▶ or ◀ to turn on expanded stereo.

2. The SAP feature shown in the User's Guide has been changed. SAP was part of the Stereo Menu, but it is now a separate menu item. This does not change the way it works. SAP can be turned on or off as shown below in the correct menu. If you turn on SAP and nothing happens, your broadcast may not have SAP. Refer to the "Sound Settings" in the User's Guide for a full explanation of SAP.



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Read This Page First!

You need only one page in this book to hook up your TV. Answer the questions and follow the steps below.

1. Where does your TV signal come from?

If you have a cable box and are unsure of how it works, select answer 3 below.

Choose one answer from below.

- ❒ 1. Antenna or cable without a cable box
- ❒ 2. Cable with cable box required for all channels
- ❒ 3. Cable with cable box required for only some channels
  Example: Premium channels such as HBO, Showtime, Disney ,etc.
- ❒ 4. Satellite and cable
- ❒ 5. Satellite and antenna

2. What are you connecting to the TV?

If you have a VCR and are unsure of how it works, select answer B below.

Choose one answer from below.

- ❒ A. No VCR
- ❒ B. Monaural VCR
- ❒ C. Stereo VCR

3. Take the answer from question #1 and combine it with the answer from question #2. This is your hookup.

Example: If you choose 1 and C, your hookup is 1C.

		Answer From Question #1				
		1	2	3	4	5
Answer From Question #2	A	1A - page 2	2A - page 5	3A - page 8	4A - page 11	5A - page 14
	B	1B - page 3	2B - page 6	3B - page 9	4B - page 12	5B - page 15
	C	1C - page 4	2C - page 7	3C - page 10	4C - page 13	5C - page 16

4. Turn to the page shown in the chart for your hookup. This is the only page you will need.

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Hook-Up 1A

Connecting TV to Antenna (or Cable Without Cable Box)

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	NO
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	NO

2. Select accessories needed.

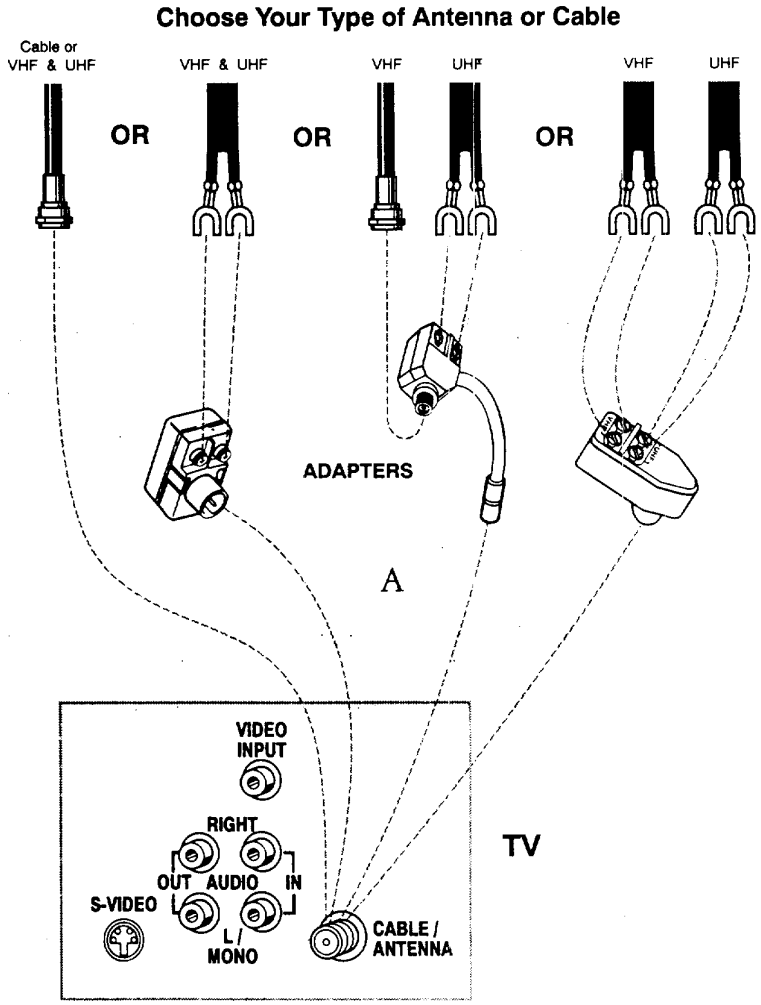
Order form is on page 19.

A. Some antennas require an adapter. Use the diagram at right to determine if you need one.

3. Connect as shown.

A. Connect adapter to antenna if needed.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 1B

Connecting TV to Antenna (or Cable Without Cable Box) and Monaural VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	YES

2. Select accessories needed.

Order form is on page 19.

A. One coaxial cable.

B. Two audio/video cables.

C. Some antennas require an adapter. Use the diagram at right to determine if you need one.

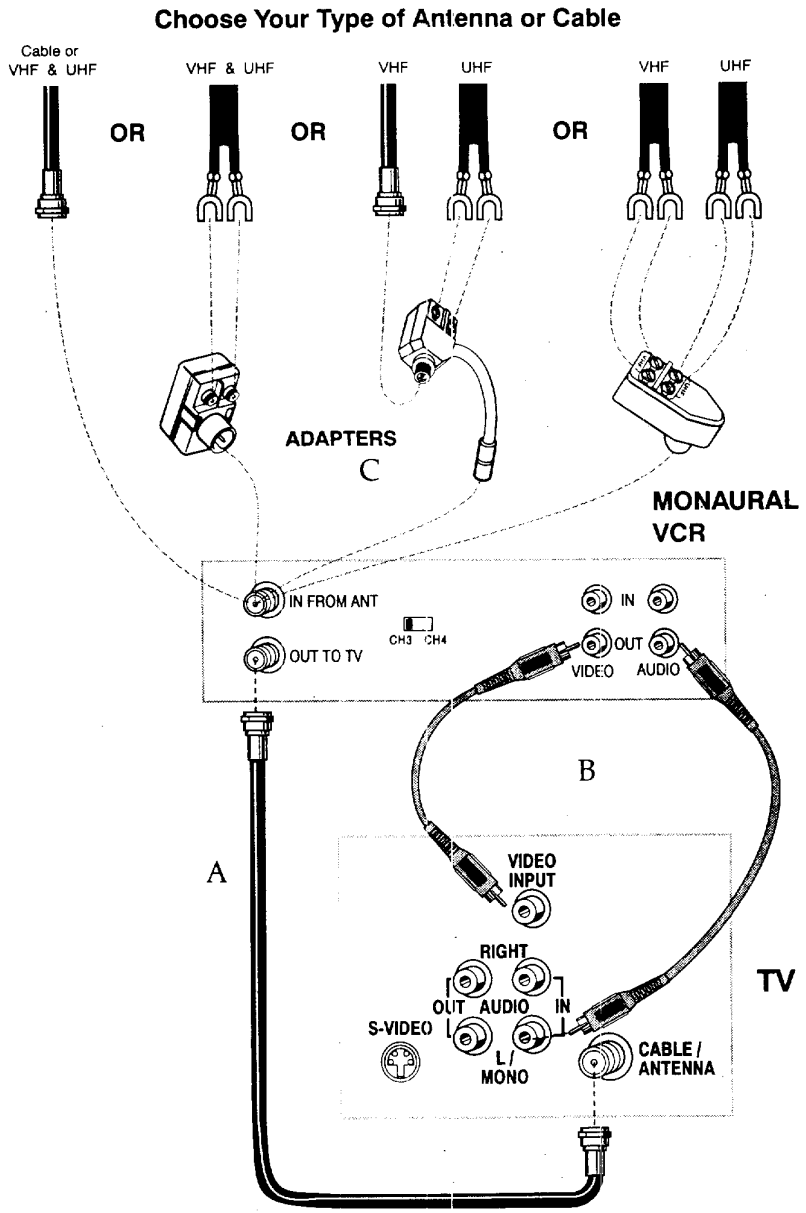
3. Connect as shown.

A. Connect coaxial cable.

B. Connect audio/video cables.

C. Connect adapter to antenna if needed.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 1C

Connecting TV to Antenna (or Cable Without Cable Box) and Stereo VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	YES
Record one channel with VCR and watch different channel on TV	YES

2. Select accessories needed.

Order form is on page 19.

A. One coaxial cable.

B. Three audio/video cables.

C. One S-Video cable if VCR has an S-VHS or S-VIDEO connector.

D. Some antennas require an adapter. Use the diagram at right to determine if you need one.

3. Connect as shown.

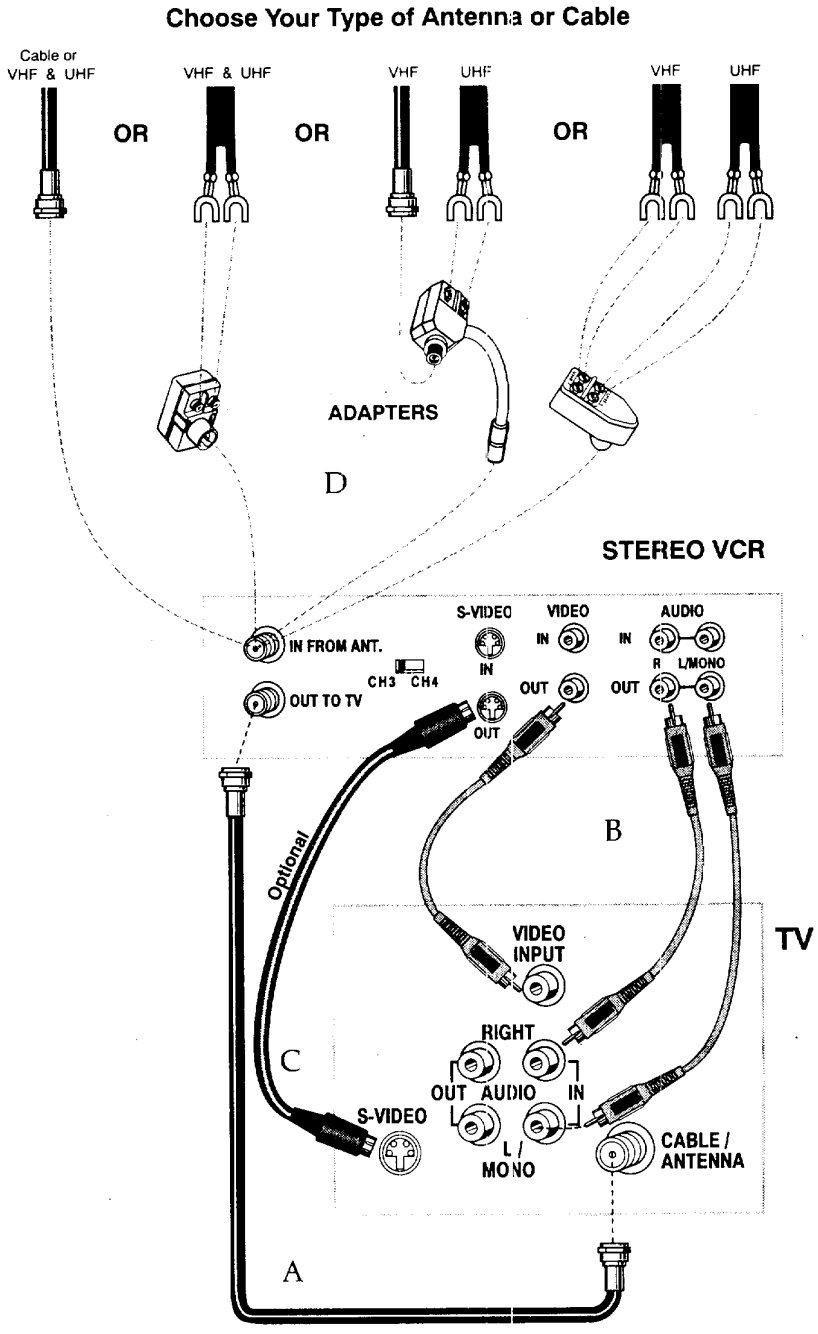
A. Connect coaxial cable.

B. Connect audio/video cables.

C. Connect S-Video cable if desired.

D. Connect adapter to antenna if needed.

4. Follow the steps in the Startup section of your User's Guide.



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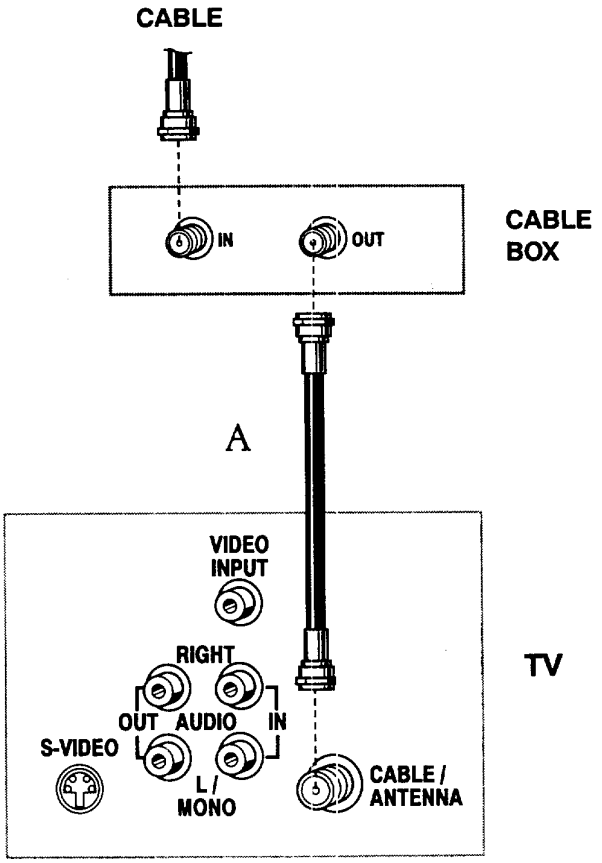
Hook-Up 2A

Connecting TV to Cable With Cable Box Required for All Channels

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	NO
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	NO



2. Select accessories needed.

Order form is on page 19.

A. One coaxial cable.

3. Connect as shown.

A. Connect coaxial cable.

4. Follow the steps in the Startup section of your User's Guide.

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Hook-Up 2B

Connecting TV to Cable With Cable Box Required for All Channels and Monaural VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture only when playing a tape in the VCR (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	NO

2. Select accessories needed.

Order form is on page 19.

A. Two coaxial cables.

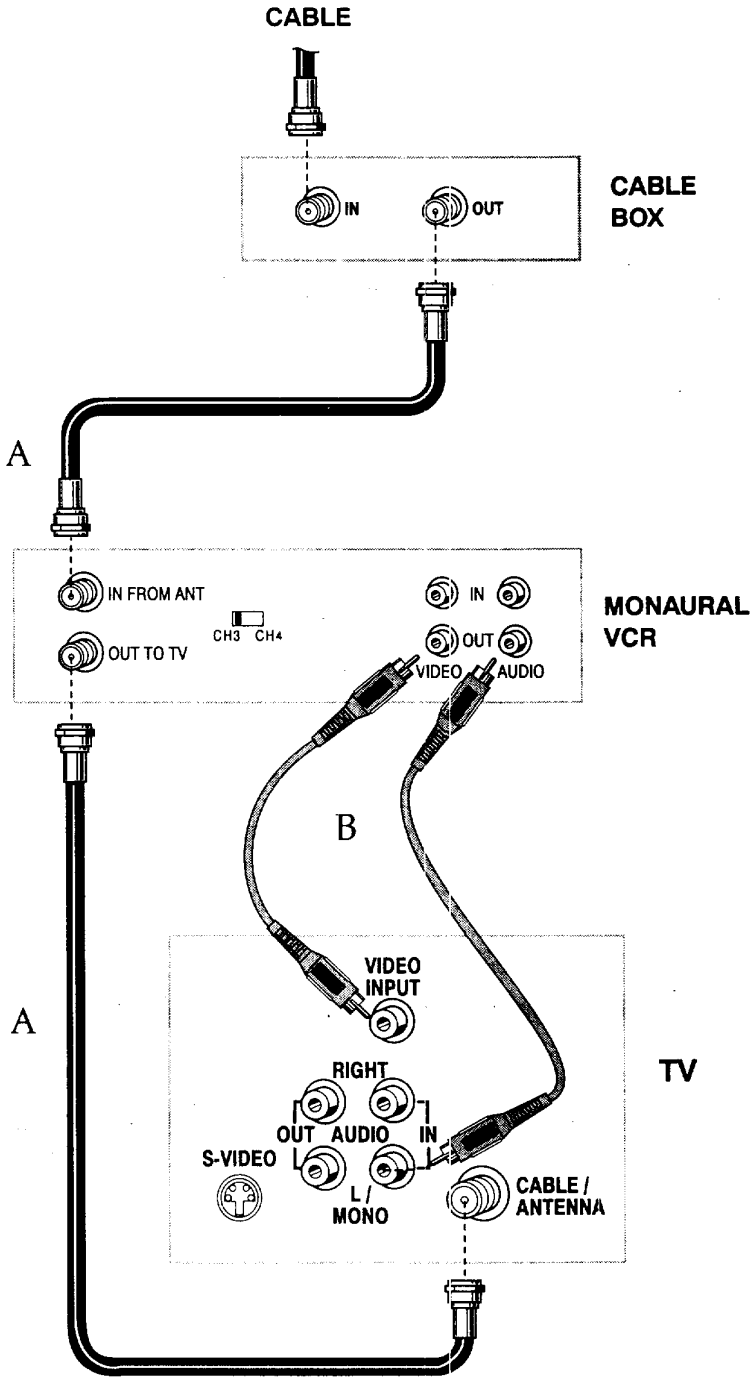
B. Two audio/video cables.

3. Connect as shown.

A. Connect coaxial cables.

B. Connect audio/video cables.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 2C

Connecting TV to Cable With Cable Box Required for All Channels and Stereo VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture only when playing a tape in the VCR (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	YES
Record one channel with VCR and watch different channel on TV	NO

2. Select accessories needed.

Order form is on page 19.

A. Two coaxial cables.

B. Three audio/video cables.

C. One S-Video cable if VCR has an S-VHS or S-VIDEO connector.

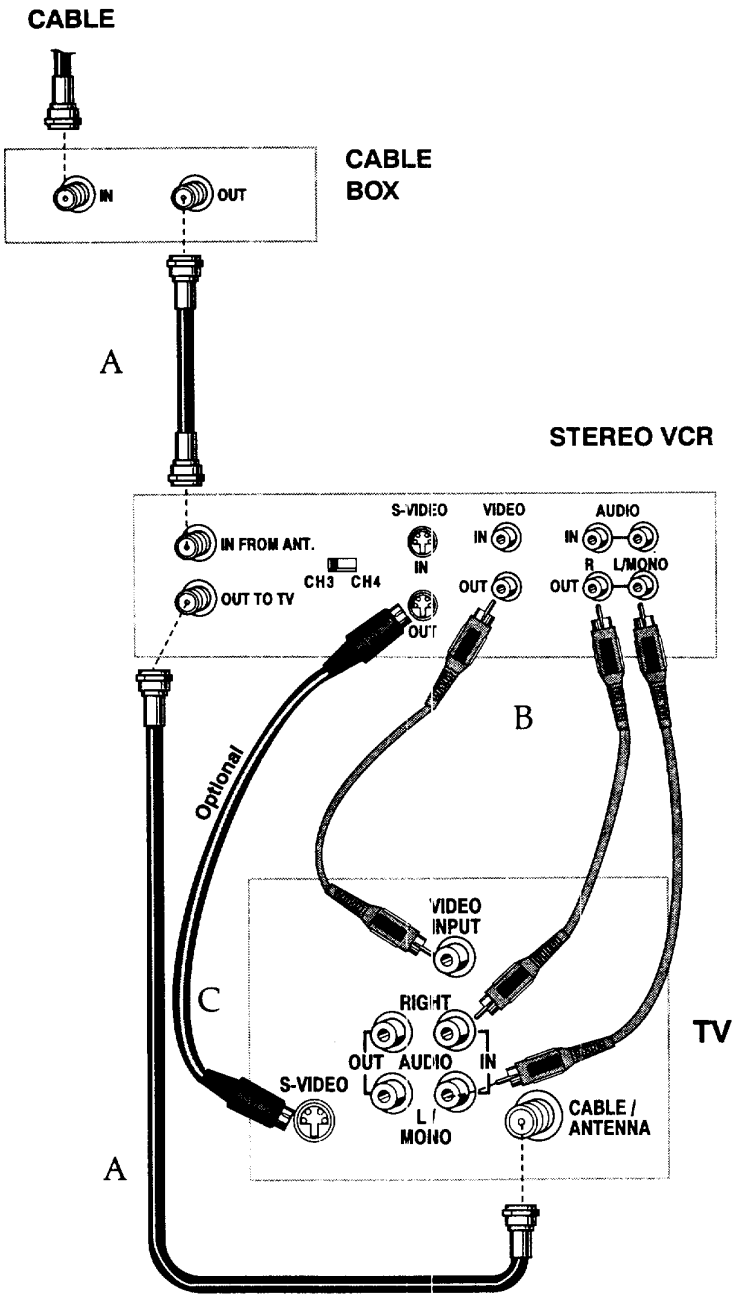
3. Connect as shown.

A. Connect coaxial cables.

B. Connect audio/video cables.

C. Connect S-Video cable if desired.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 3A

Connecting TV to Cable With Cable Box Required for Some Channels

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	NO
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	NO

2. Select accessories needed.

Order form is on page 19.

A. One signal splitter.

B. Four coaxial cables.

C. One A-B switch.

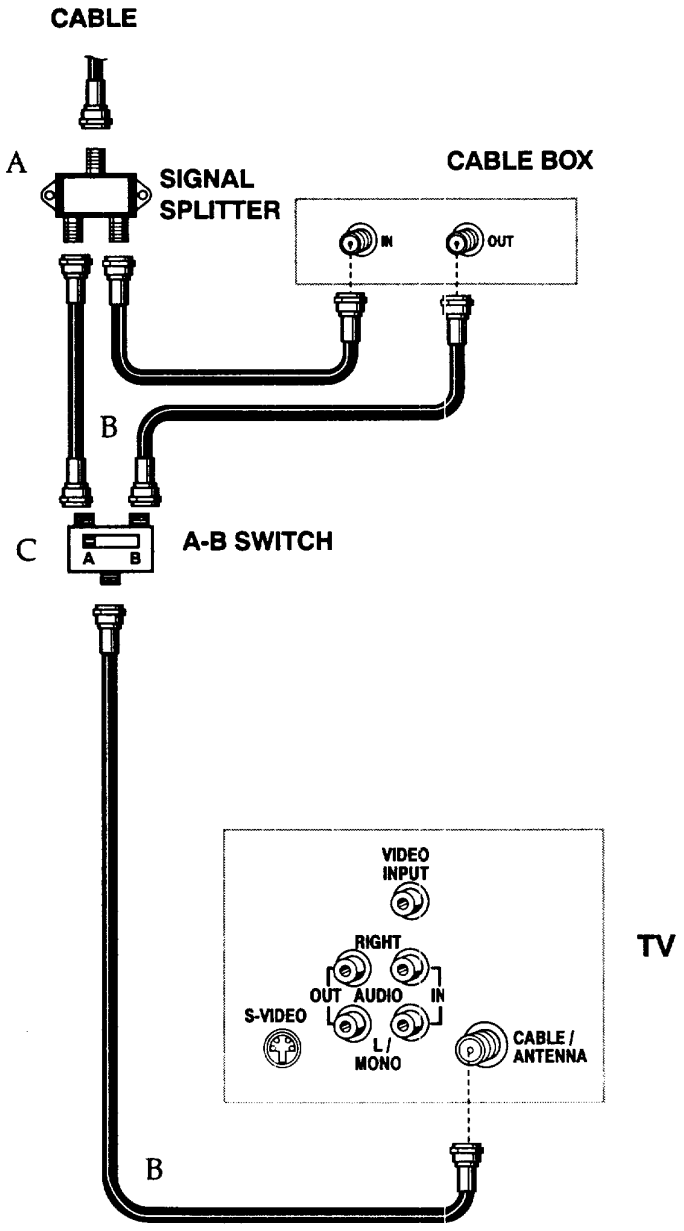
3. Connect as shown.

A. Connect signal splitter.

B. Connect coaxial cables.

C. Connect A-B switch.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 3B

Connecting TV to Cable With Box Required for Some Channels and Monaural VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	YES

2. Select accessories needed.

Order form is on page 19.

A. One signal splitter.

B. Three coaxial cables.

C. Two audio/video cables.

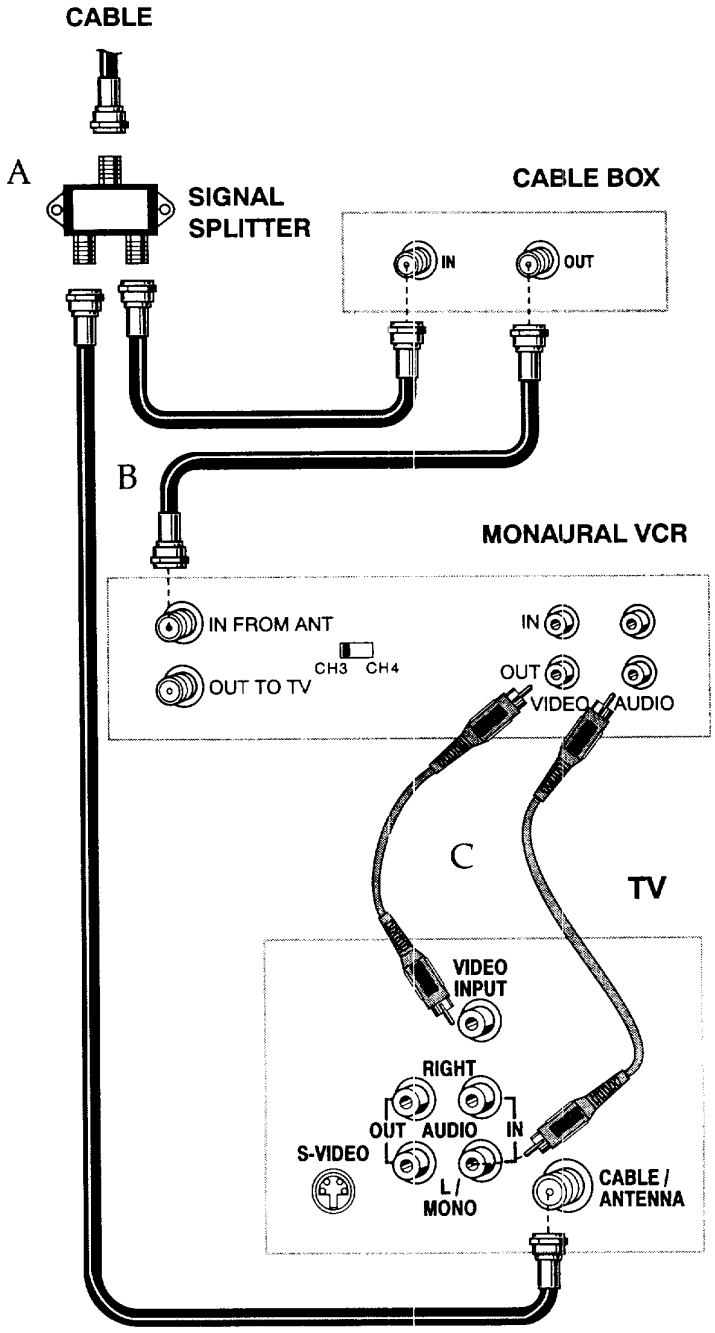
3. Connect as shown.

A. Connect signal splitter.

B. Connect coaxial cables.

C. Connect audio/video cables.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 3C

Connecting TV to Cable With Box Required for Some Channels and Stereo VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	YES
Record one channel with VCR and watch different channel on TV	YES

2. Select accessories needed.

Order form is on page 19.

A. One signal splitter.

B. Three coaxial cables.

C. Three audio/video cables.

D. One S-Video cable if VCR has an S-VHS or S-VIDEO connector.

3. Connect as shown.

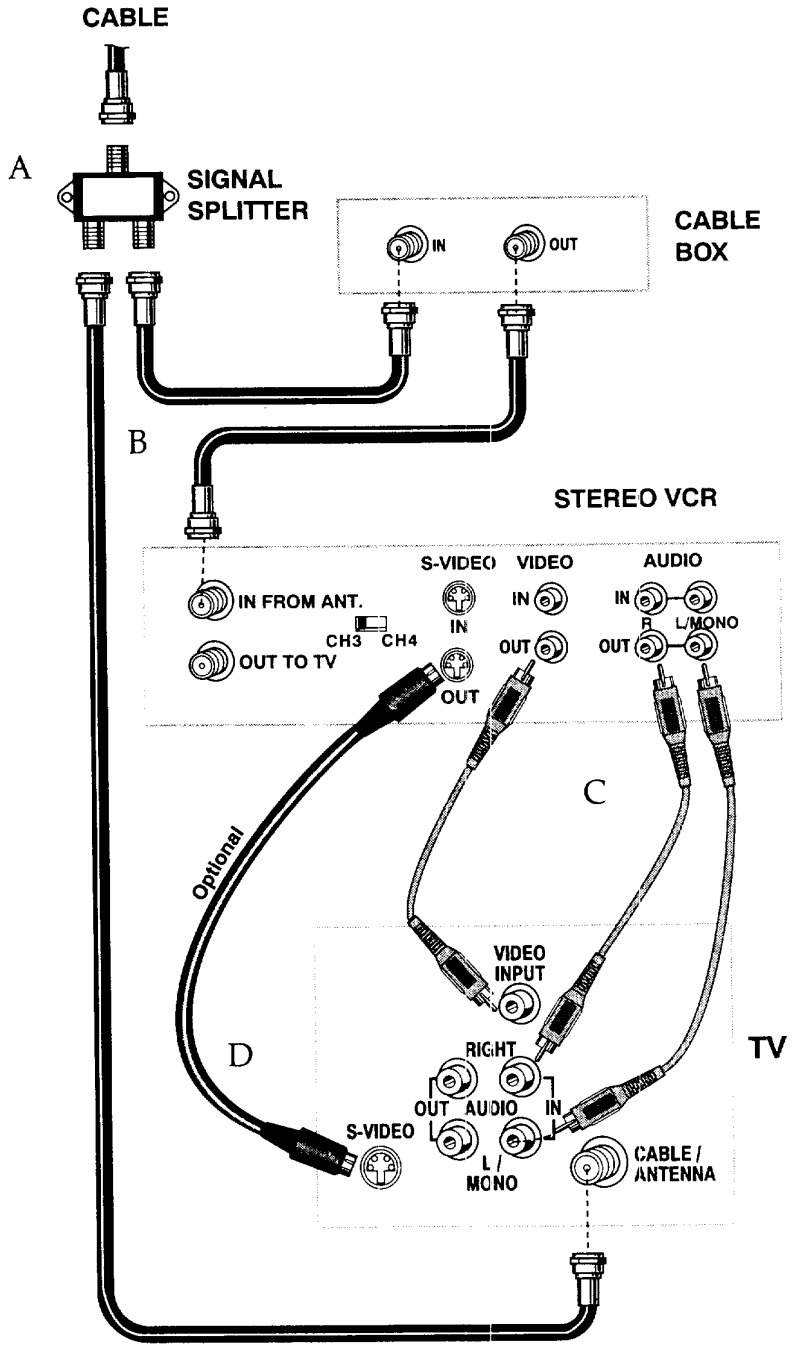
A. Connect signal splitter.

B. Connect coaxial cables.

C. Connect audio/video cables.

D. Connect S-Video cable if desired.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 4A

Connecting TV to Satellite and Cable

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	NO

2. Select accessories needed.

Order form is on page 19.

A. One coaxial cable if a cable box is required.

B. Three audio/video cables.

C. One S-Video cable if satellite receiver has an S-VHS or S-VIDEO connector.

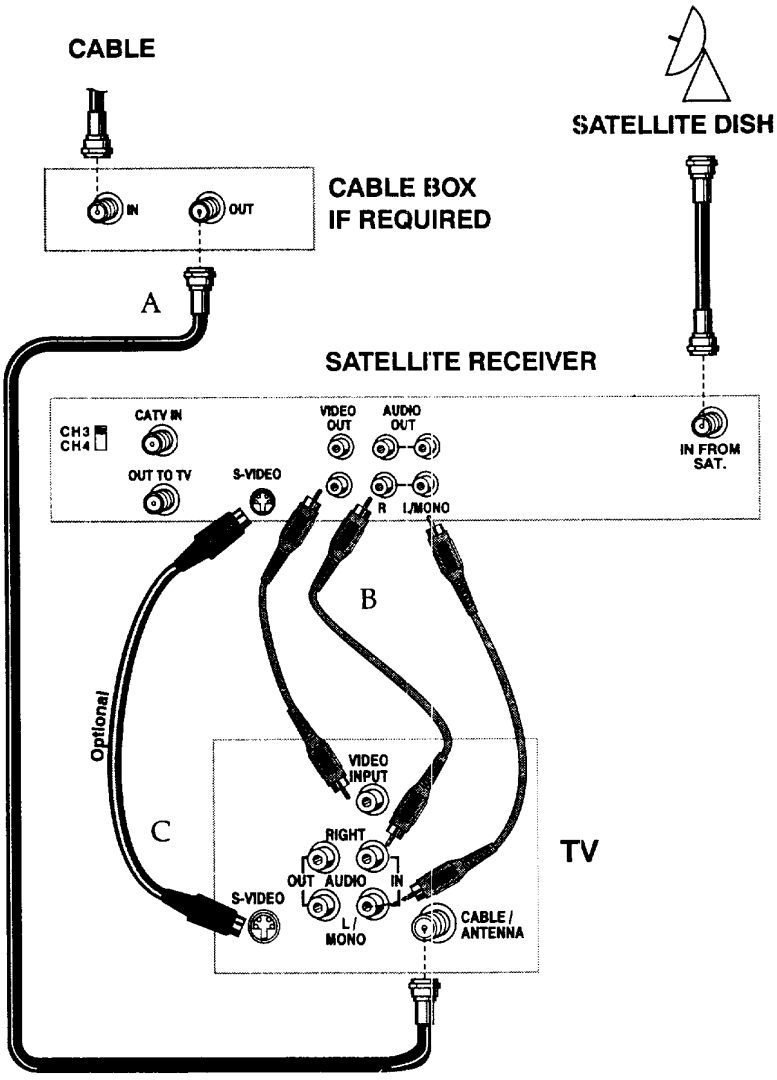
3. Connect as shown.

A. Connect coaxial cable.

B. Connect audio/video cables.

C. Connect S-Video cable if desired.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 4B

Connecting TV to Satellite, Cable, and Monaural VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	YES

2. Select accessories needed.

Order form is on page 19.

A. Three coaxial cables if cable box is required. Two coaxial cables if cable box is not required.

B. Three audio/video cables.

C. One S-Video cable if satellite receiver has an S-VHS or S-VIDEO connector.

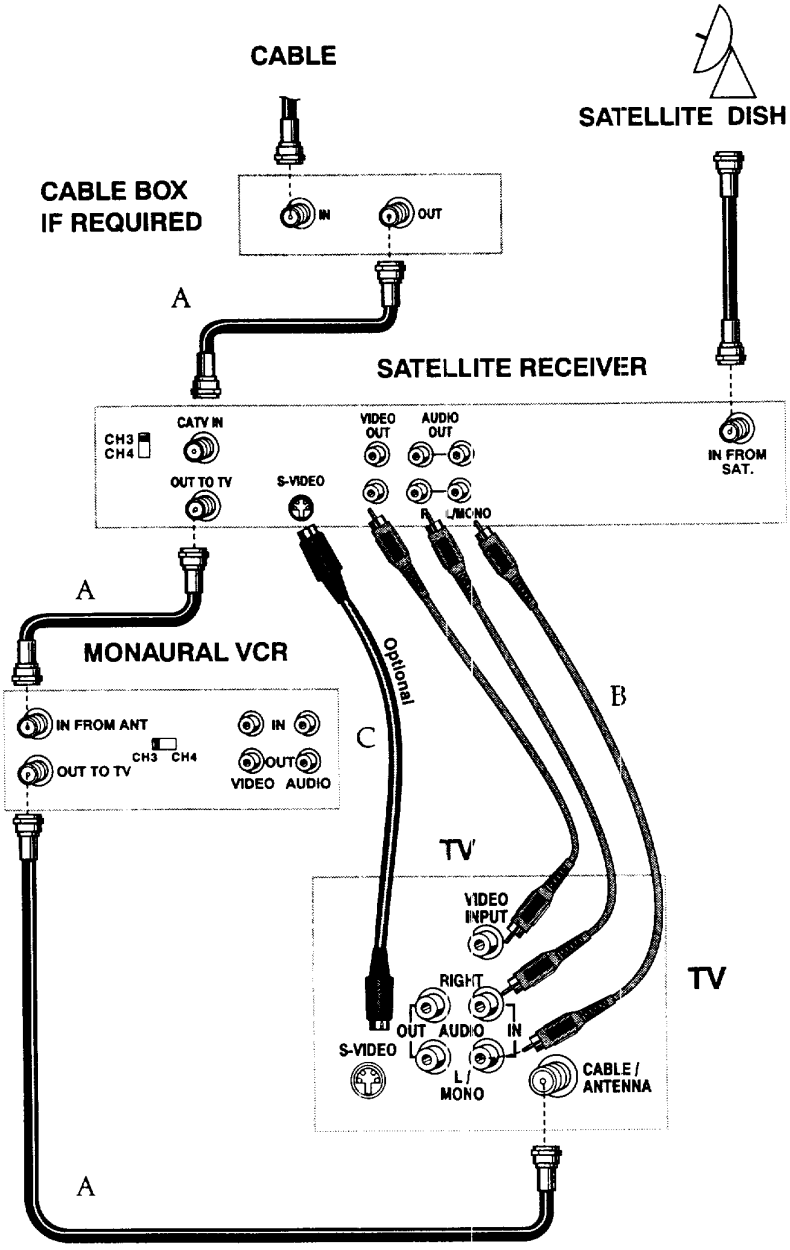
3. Connect as shown.

A. Connect coaxial cables.

B. Connect audio/video cables.

C. Connect S-Video cable if desired.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 4C

Connecting TV to Satellite, Cable, and Stereo VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	YES
Record one channel with VCR and watch different channel on TV	YES

2. Select accessories needed.

Order form is on page 19.

A. Two coaxial cables if cable box is required. One coaxial cable if cable box is not required.

B. Six audio/video cables.

C. Two S-Video cables if satellite receiver and VCR have S-VHS or S-VIDEO connector.

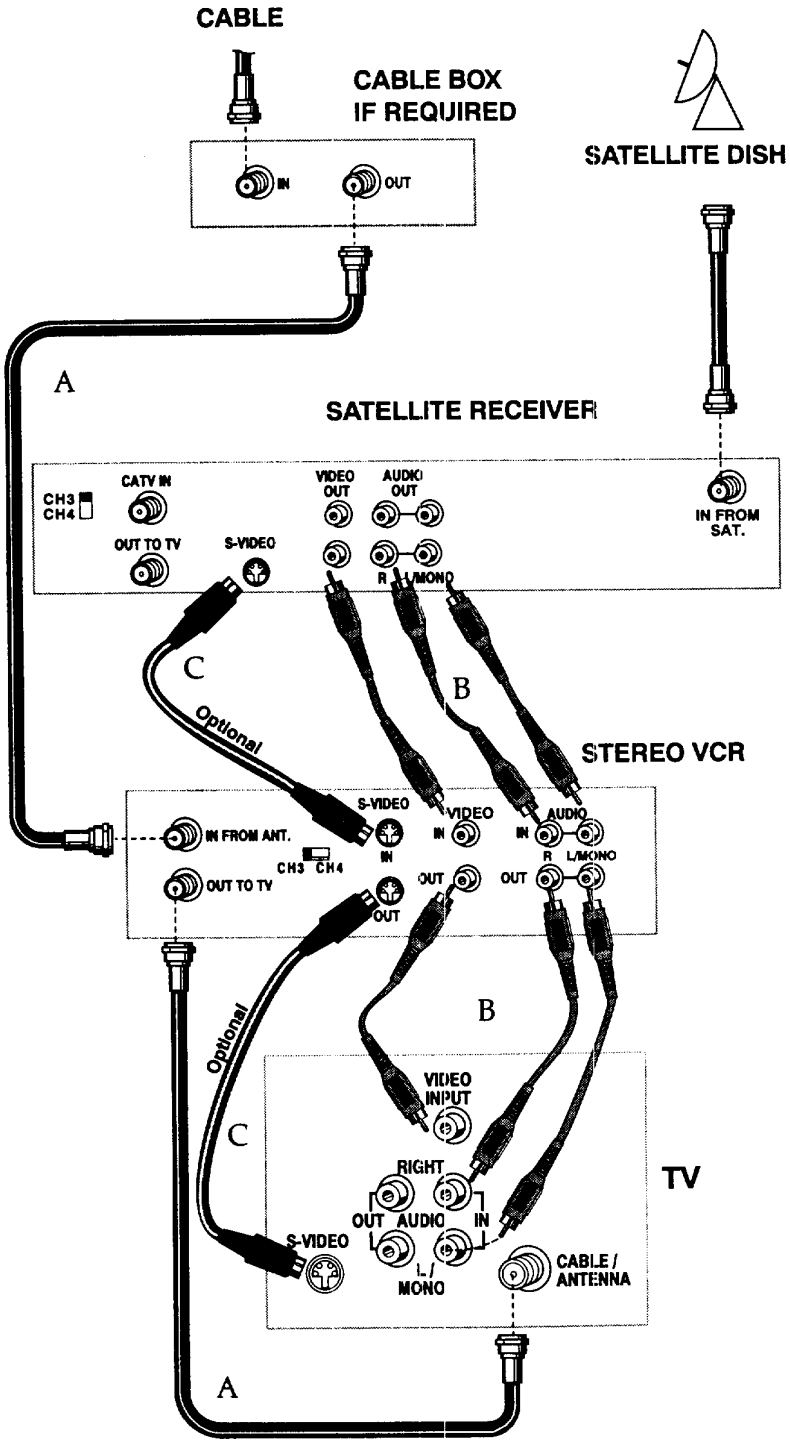
3. Connect as shown.

A. Connect coaxial cable(s).

B. Connect audio/video cables.

C. Connect S-Video cable(s) if desired.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 5A

Connecting TV to Satellite and Antenna

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	NO

2. Select accessories needed.

Order form is on page 19.

A. Three audio/video cables.

B. One S-Video cable if satellite receiver has an S-VHS or S-VIDEO connector.

C. Some antennas require an adapter. Use the diagram at right to determine if you need one.

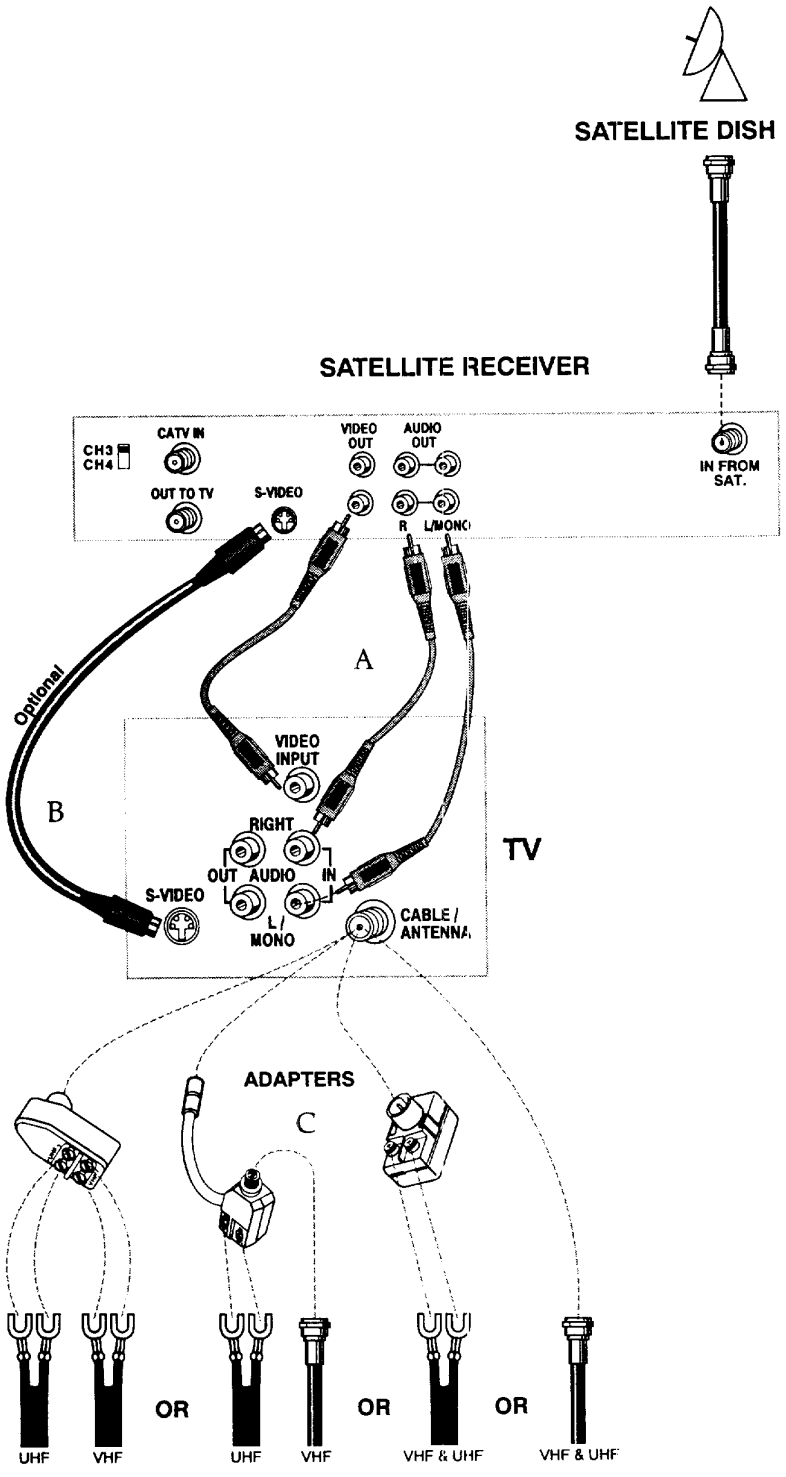
3. Connect as shown.

A. Connect audio/video cables.

B. Connect S-Video cable if desired.

C. Connect adapter to antenna if needed.

4. Follow the steps in the Startup section of your User's Guide.



Choose Your Type of Antenna Cable

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Hook-Up 5B

Connecting TV to Satellite, Antenna, and Monaural VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	NO
Record one channel with VCR and watch different channel on TV	YES

2. Select accessories needed.

Order form is on page 19.

A. Three coaxial cables.

B. Three audio/video cables.

C. One S-Video cable if satellite receiver has an S-VHS or S-VIDEO connector.

D. Some antennas require an adapter. Use the diagram at right to determine if you need one.

3. Connect as shown.

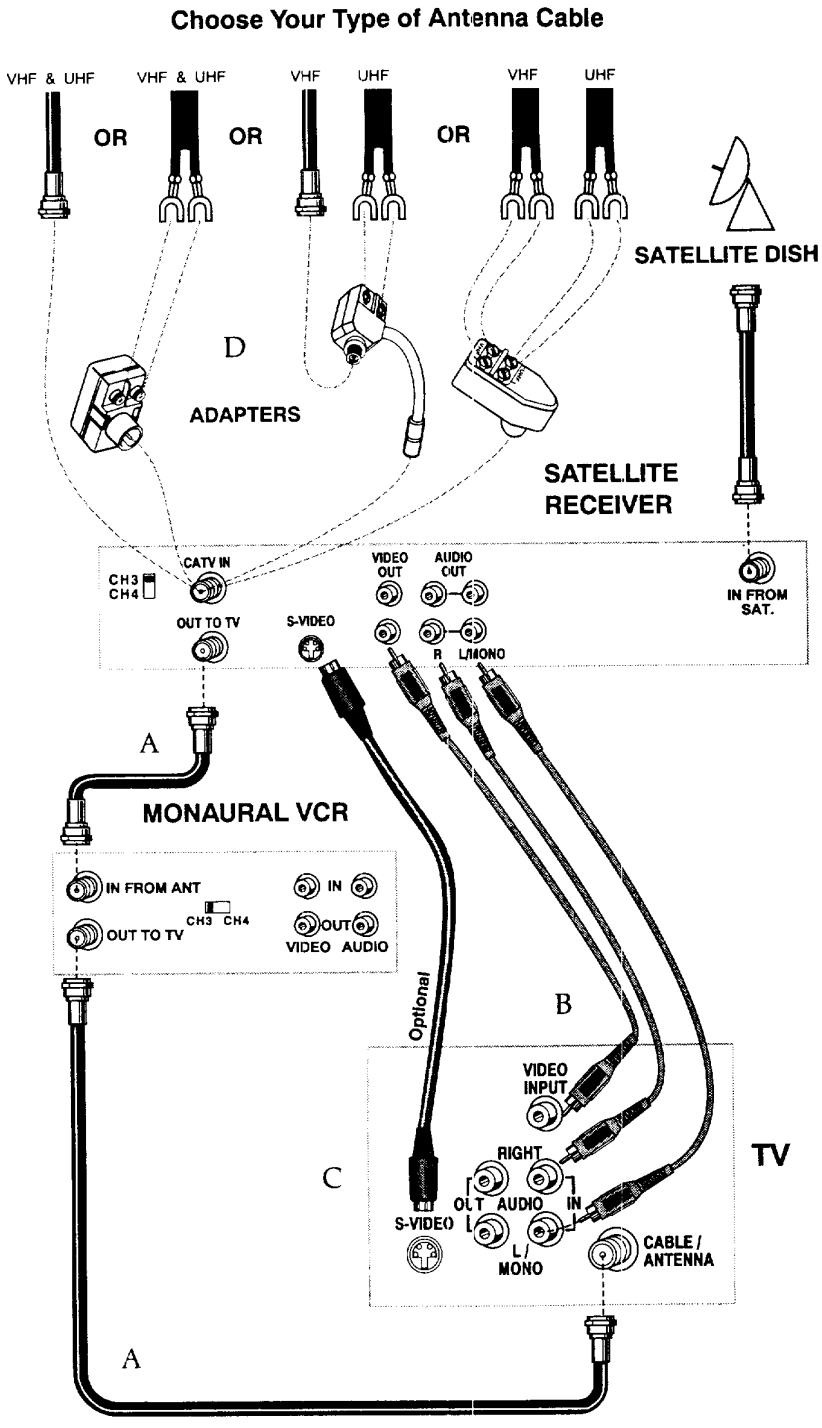
A. Connect coaxial cables.

B. Connect audio/video cables.

C. Connect S-Video cable if desired.

D. Connect adapter to antenna if needed.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up 5C

Connecting TV to Satellite, Antenna, and Stereo VCR

1. Use this hookup to:

Receive Stereo Broadcasts	YES
Use Picture-in-Picture (not all models have PIP)	YES
Hear Stereo Playback from Stereo VCR	YES
Record one channel with VCR and watch different channel on TV	YES

2. Select accessories needed.

Order form is on page 19.

A. One coaxial cable.

B. Six audio/video cables.

C. Two S-Video cables if satellite receiver and VCR have an S-VHS or S-VIDEO connector.

D. Some antennas require an adapter. Use the diagram at right to determine if you need one.

3. Connect as shown.

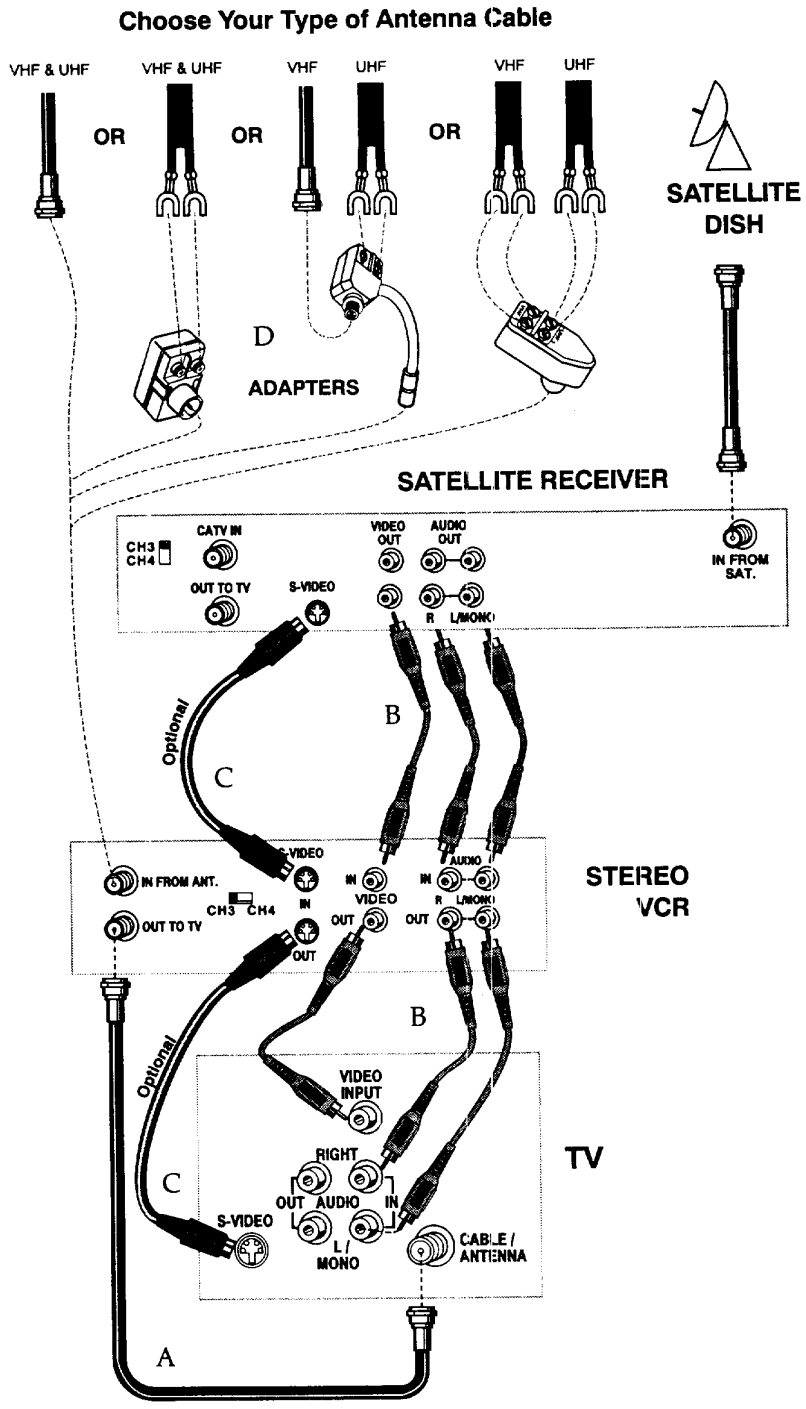
A. Connect coaxial cables.

B. Connect audio/video cables.

C. Connect S-Video cable(s) if desired.

D. Connect adapter to antenna if needed.

4. Follow the steps in the Startup section of your User's Guide.



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Hook-Up Audio

Connecting TV to Audio System (select models only)

1. Use this hookup to:

Hear sound through the speakers connected to the amplifier.

2. Select accessories needed.

Order form is on page 19.

A. Two single audio cables.

3. Connect as shown.

A. Connect audio/video cables.

B. Insert plugs completely to avoid audio hum.

4. Place speakers.

A. Place speakers at least eight inches away from the TV to prevent color streaks in the picture.

5. Operate amplifier.

A. Turn on TV and amplifier.

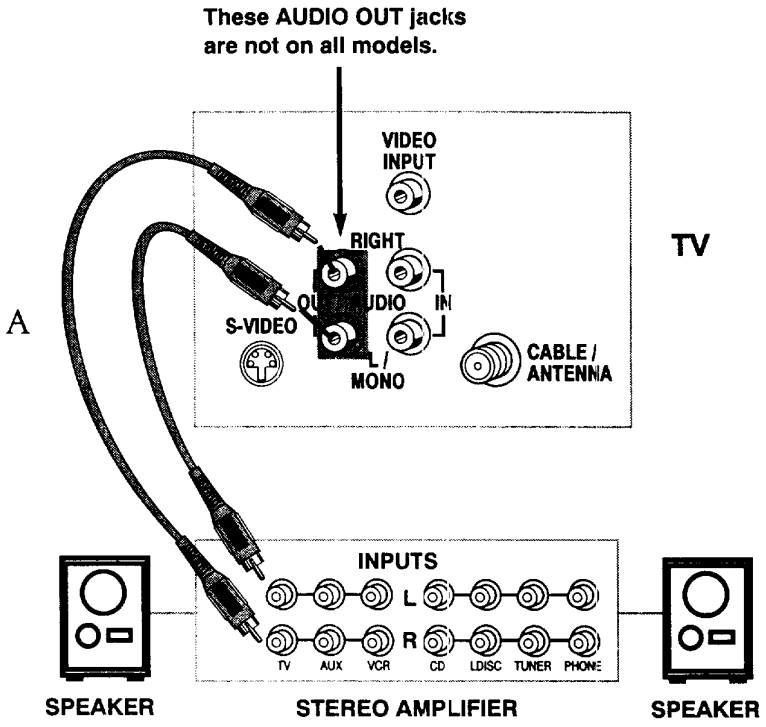
B. Press TV button on front of amplifier.

C. Adjust the amplifier's volume for normal listening.

D. Control sound with the VOLUME buttons on the TV's remote.

E. Turn off the TV's internal speakers if desired with the SPEAKERS ON/OFF feature described in the User's Guide.

6. Follow the steps in the Startup section of your User's Guide.



This set incorporates special circuits which enhance stereo imaging and effect when used with the TV's own speakers. If external speakers are used, the stereo effect may decrease.

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Ordering Accessories

Coaxial Cables

Screw-on Coaxial Cable

Used to attach antenna connectors on the back of your TV or VCR for a secure connection.

#AH037 (3-ft)

Push-on Coaxial Cable

Used to attach antenna connectors on the back of your TV or VCR for a quick connection.

Gold-Tipped Cables
#AH065G (6-ft)
#AH066G (10-ft)

S-Video Cables

S- Video Cable

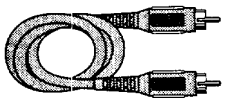
Used to connect a compatible S-Video component to the S-VIDEO connector on your TV. Cable has a multi-pin connector on each end.

#VAA014 (5-ft)
#VAA020 (8-ft)

Audio/Video Cables

Single Audio/Video Cable

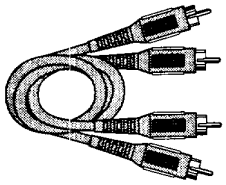
Used to connect AUDIO or VIDEO jacks. Cable is shielded and has an RCA-type plug on each end.



Gold-Tipped Cables
#AH069G (3-ft)
#AH070G (6-ft)

Double Audio/Video Cable

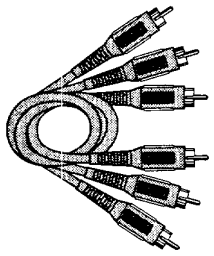
Used to connect AUDIO or VIDEO jacks and has two plugs on each end. Cable is color-coded and shielded and has RCA-type plugs on each end.



Gold-Tipped Cable
#AH075G (6-ft)

Triple Audio/Video Cable

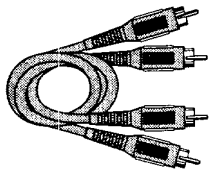
Used to connect AUDIO and VIDEO jacks and has three plugs on each end. Cable is color-coded and shielded and has RCA-type plugs on each end.



Gold-Tipped Cable
#AH077G (6-ft)

Double Audio Cable

Used to connect AUDIO jacks not VIDEO jacks. Cable is color-coded and shielded and has RCA-type plugs on each end.



Gold-Tipped Cable
#AH072G (3-ft)

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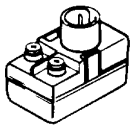
Antenna Adapters

Antenna Adapter

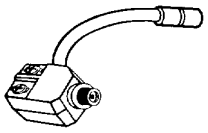
Used to connect a twin-lead cable to the connector on your TV or VCR.



Adapter #193983

Antenna Adapter

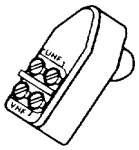
Used to attach one coaxial cable *and* one twin-lead cable to the connector on your TV or VCR.



Adapter #197551

Antenna Adapter

Used to attach two twin-lead cables to the connector on your TV or VCR.

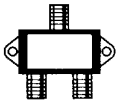


Adapter #193984

Signal Splitters

Splitter

Used to separate incoming signal and send to separate devices.

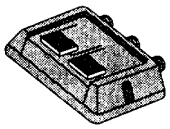


Splitter #AH047

Signal Switch

A-B Switch

Used to send a signal to one of two separate devices.



A-B Switch #AH041

Detach Here

Order Form

(Book No. 1Q57 400-01A, Rev 1)

Description	Part No.	Price	Qty	Total
Coaxial Cable Length: 3-ft	AH037	$ 3.95		
Coaxial Cable Length: 6-ft	AH065G	$ 6.99		
Coaxial Cable Length: 10-ft	AH066G	$ 8.99		
S-VHS Video Cable Length: 5-ft	VAA014	$27.55		
S-VHS Video Cable Length: 8-ft	VAA020	$29.95		
Single Audio/Video Cable Length: 3-ft	AH069G	$ 5.99		
Single Audio/Video Cable Length: 6-ft	AH070G	$ 7.99		
Double Audio/Video Cable Length: 6-ft	AH075G	$10.99		
Triple Audio/Video Cable Length: 6-ft	AH077G	$14.99		
Double Audio Cable Length: 3-ft	AH072G	$ 8.99		
Antenna Adapter	193983	$ 6.95		
Antenna Adapter	197551	$11.40		
Antenna Adapter	193984	$10.73		
Splitter	AH047	$ 3.99		
A-B Switch	AH041	$14.95		

Prices are subject to change without notice.

Total Merchandise ($10 Minimum Order) .....$_____

Sales Tax.....$_____

We are required by law to collect the appropriate sales tax for each individual state, county, and locality to which the merchandise is being sent.

Shipping, Handling, and Insurance.....$ 5.00

Total Amount Enclosed.....$_____

Use VISA or MasterCard preferably.
Money order or check must be in U.S. currency only.
No COD or CASH.

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Ordering Accessories

Charge your order on your VISA or MasterCard by filling in below

USE YOUR CREDIT CARD

IMPORTANT: Copy complete account number from your VISA card

VISA

☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

My card expires: ☐☐ ☐☐

IMPORTANT: Copy complete account number from your MasterCard

MasterCard

☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Copy Number above your name on MasterCard ☐☐☐☐ My card expires: ☐☐ ☐☐

AUTHORIZED SIGNATURE

Prices are subject to change without notice.

PLEASE

Print or type your name and address clearly. This will be your mailing label.

A complete and correct order will save you days of waiting.

Name: _____

Street: _____

_____ Apt: _____

City: _____

State: _____ Zip: _____

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United States and Canada Orders

Order by phone using your VISA or MasterCard. Call the toll-free number listed below between 8 AM and 8 PM Eastern Standard Time. Use this number only to place an order for accessory items listed on this order form.

1-800-338-0376

Most orders are shipped UPS within 72 hours of receipt. If it is not possible to ship within 30 days, we will notify you.

For mail order, detach and mail the completed order form with credit card information, money order, or check in U.S. currency (made payable to Thomson Consumer Electronics, Inc.) to the following address:

Video Accessories
PO Box 8419
Ronks, PA 17573

For more current information on these accessories, write to the following address:

Video Accessories Customer Service
Thomson Consumer Electronics, Inc.
Distributor & Special Products
2000 Clements Bridge Rd
Deptford, NJ 08096-2088

International Orders

This offer is valid only in the United States and Canada. For international orders, please send your request for a price quotation (not an order) to:

International Customer Service
Thomson Consumer Electronics, Inc.
Distributor & Special Products
2000 Clements Bridge Rd
Deptford, NJ USA 08096-2088

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References

Guide to Connection Panel

The connections panel is on the back of your TV. This is where you connect the cables and components. Most connections can be made with the three basic cable types shown below. To order cables, *see pages 18-20.*

AUDIO/VIDEO INPUT JACKS

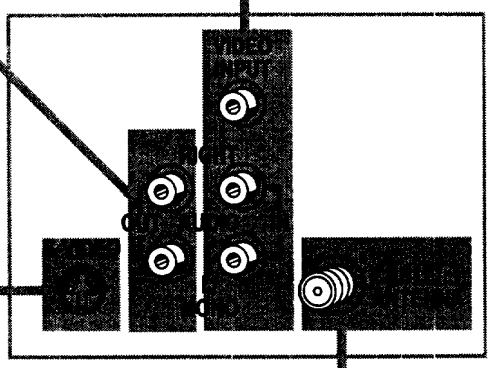
Used to connect a VCR, laserdisc player, satellite receiver, or camcorder. To see the picture coming from the component you connected, select channel 00 on the TV or press the INPUT button. Use audio/video cables.

Audio/Video Cable

AUDIO OUTPUT JACKS
(not on all models)

Used to connect a stereo system. Sound comes through the TV's speakers and stereo amplifier's speakers. Use audio or audio/video cables.

Audio/Video Cable



CONNECTION PANEL ON BACK OF TV

S-VIDEO CONNECTOR
(not on all models)

Used to connect a compatible component such as satellite receiver, laserdisc player, VCR, or camcorder. Use an S-Video cable to connect S-Video components.

S-Video Cable

CABLE/ANTENNA CONNECTOR

Used to attach antenna or cable. Use a coaxial cable for this connection.

Coaxial Cable

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References

Things to Know Before Connecting Cables

Protect your components from power surges

- Connect all components before plugging any power cords into the wall outlet.
- Always turn off the TV and/or component before you connect or disconnect any cables.

Avoid audio hum or interference by positioning cables correctly

- Insert all cable plugs firmly into their jacks.
- Place the audio/video cables to the sides of the TV's back panel instead of straight down the middle after you connect your components.
- Try not to coil any twin-lead cables and keep them away from the audio/video cables as much as possible.
- Make sure all antennas and cables are properly grounded. Refer to the Safety Tips sheet packed with your TV.

Protect your components from overheating

- Do not block ventilation holes in any of the components. Arrange the components so that air can circulate freely.
- Do not stack components.
- Allow adequate ventilation when placing your components in a stand.
- Place an amplifier on the top shelf of the stand so heated air rising from it will not flow around other components.

Connect audio/video cables for best results

- Required for picture-in-picture feature (this feature is not on all models).

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References

Trouble Checks

Trouble	Checks and Adjustments
TV	
No picture or sound	Check your connections. Make sure TV's power cord is plugged into a wall socket. Make sure TV is turned on. Make sure TV is tuned to correct channel. If TV is tuned to channel 00, turn on component connected to TV's AUDIO and VIDEO jacks. Make sure TV is tuned to the output channel (usually 02, 03, or 04) if using a cable box.
No sound	Make sure the TV's internal speakers are turned on.
No stereo sound	Connect the three audio and video cables from the component's outputs to the TV's inputs, then select channel 00 on TV to hear stereo from a stereo component. Make sure the TV's stereo feature is turned on.
Sound comes from only one speaker	Make sure the monaural (not stereo) component's AUDIO OUT is connected to the TV's AUDIO IN jack labeled L/MONO. Check the speaker wire connections if you connected an amplifier.
Color streaks appear in the picture	Make sure all cables are firmly seated in their jacks. Place external speakers at least 8 inches away from the TV.
VCR	
No picture	**For connections 1B, 1C, 4C, 5C:** 1. Make sure the VCR is turned on and tuned to an active channel. 2. Select channel 00 on the TV when VCR is connected to the TV using the the AUDIO and VIDEO IN jacks.

continued on the next page

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Trouble Checks

Trouble	Checks and Adjustments
VCR (continued) **No picture**	**For connections 2B, 2C, 3B, 3C:** 1. Make sure the VCR is turned on. 2. Make sure the cable box is turned on and the VCR is tuned to the output channel (usually 02, 03, or 04) of the cable box. 3. Select channel 00 on the TV when VCR is connected to the TV using the the AUDIO and VIDEO IN jacks. **For connections 4B, 5B:** 1. Tune the TV to channel 03 or 04, the same channel the VCR CH3/CH4 switch is set to. 2. Place the TV/VCR button in the VCR position to see the picture from the VCR.
Can't record one channel with the VCR while watching a different channel on the TV	**For connections 2B, 2C:** Not possible with these connections because only one channel at a time can come from the cable box. **For connections 1B, 1C:** 1. Turn on TV and select channel 00 on the TV. 2. Turn on VCR, insert tape, select channel to record with CHANNEL buttons on VCR, and then press RECORD on VCR. 3. Press TV/VCR button on VCR (also called TV/VCR switch). 4. Change channel on TV with TV's CHANNEL buttons. **For connections 3B, 3C:** 1. Turn on TV and select channel 00 on TV. 2. Turn on cable box. 3. Turn on VCR and use CHANNEL buttons on VCR to tune the VCR to the output channel of the cable box (usually 02, 03, or 04). 4. Select channel to record with CHANNEL buttons on cable box. 5. Insert tape into VCR and then press RECORD button on VCR. 6. Change channel on TV with TV's CHANNEL buttons to view another channel. The recording will not be affected. Tune TV to channel 00 if you want to see what is being recorded.

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Trouble Checks

Trouble	Checks and Adjustments
VCR (continued) **Can't record one channel with the VCR while watching a different channel on the TV**	**For connections 4B, 5B:** 1. Turn on TV, VCR, satellite receiver, and cable box (if required). 2. Make sure IRD/TV switch on satellite receiver is in TV position so signal from cable box or antenna is coming out the OUT TO TV jack on the satellite receiver. 3. If cable box is required, use CHANNEL buttons on VCR to tune VCR to output channel of cable box (usually 02, 03, or 04). 4. Select channel 03 or 04 on TV (depending on the position of the CH3/CH4 switch on the back of the VCR). 5. Select desired channel with CHANNEL buttons on cable box if cable box is required. If cable box is not required, select desired channel with CHANNEL buttons on VCR. 6. Insert tape in VCR and press RECORD on VCR. 7. To watch satellite channel, select channel 00 on TV. 8. Then select desired channel to watch with CHANNEL buttons on satellite receiver. **For connections 4C, 5C:** 1. Turn on TV and select channel 00 on TV with remote. 2. Turn on satellite receiver and select desired satellite channel with CHANNEL buttons on satellite receiver. 3. Turn on VCR and set it to *line mode* (see glossary) so you can see the satellite signal coming into its AUDIO/VIDEO IN jacks. 4. Insert tape in VCR and press RECORD on VCR. 5. Press TV/VCR button on VCR. This lets the cable signal flow directly out of the OUT TO TV jack of the VCR without affecting the recording. 6. If cable box is required, turn on cable box, change channel on TV to output channel of cable box (usually 02, 03, or 04), and select desired channel with CHANNEL buttons on cable box. 7. If cable box is not required, select desired channel with CHANNEL buttons on TV.

continued on the next page

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References

Trouble Checks

Trouble	Checks and Adjustments
Satellite Receiver **No picture**	**For connections 4A, 4B, 5A, 5B:** 1. Make sure satellite receiver is turned on and tuned to an active channel. 2. Select channel 00 on the TV. **For connections 4C, 5C:** 1. Turn on TV and tune it to channel 00. 2. Turn on satellite receiver. 3. Turn on VCR and set it to *line mode* (see glossary). 4. Select desired channel with CHANNEL buttons on satellite receiver.
Cable Box **No Picture**	**For connections 2A, 4A:** 1. Turn on cable box and tune to an active channel. 2. Tune TV to output channel (usually 02, 03, or 04) of cable box. 3. Select desired channel with CHANNEL buttons on the cable box. **For connections 2B, 2C, 3B, 3C:** 1. Turn on cable box and tune to an active channel. 2. Tune the TV to the output channel (usually 02, 03, or 04) of the cable box with VCR turned off. With VCR turned on, tune VCR to output channel of cable box and select channel 00 on the TV. 3. Select desired channel with CHANNEL buttons on the cable box. **For connection 3A:** 1. Turn on cable box and tune to a premium channel. 2. Tune the TV to the output channel of cable box. 3. Place A-B switch in the B position to watch premium channels. 4. Place A-B switch in the A position to watch other channels when cable box is not needed. **For connection 4B:** 1. Turn off satellite receiver or press IRD/TV switch on satellite receiver. 2. Turn off VCR, or press TV/VCR button on VCR. **For connection 4C:** 1. Turn off VCR, or press TV/VCR button on VCR.

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References

Trouble Checks

Trouble	Checks and Adjustments
Picture-in-Picture **(not on all TV models)** **No Picture**	**For connections 1A, 2A, and 3A:** Picture-in-Picture is not possible with these connections. **For connections 2B and 2C:** Picture-in-Picture is possible with these connections when playing a tape in the VCR. 1. Turn on TV, then turn on cable box to desired channel. 2. Insert tape in VCR and press PLAY. 3. Press the TV/VCR button to return to TV control. 4. Turn on Picture-in-Picture feature. 5. Tune TV to channel 00. **For all other connections:** 1. Make sure a component such as a VCR or camcorder is connected to the TV's AUDIO and VIDEO IN jacks. 2. Turn on TV to watch one picture through the CABLE/ANTENNA connector. 3. Turn on component connected to AUDIO IN and VIDEO IN jacks. 4. Tune TV to channel 00 to see the other picture. **For S-Video connection:** Be sure to connect the regular VIDEO cable for picture-in-picture when you have an S-VHS component connected to the TV with an S-VHS cable. The S-VIDEO signal cannot be used for picture-in-picture.

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References

Glossary

Adapter
Accessory used to attach antenna cables to the round antenna connector on the TV.

Antenna
Antenna used to receive local broadcast. Usually an outdoor roof antenna, attic type antenna, or indoor dipole type antenna (sometimes referred to as rabbit ears).

Audio/Video Cables
Cables that carry sound and picture signals from one component to another.

Cable
A system of distributing TV signals to a home supported by a cable company.

Cable Box
Required by some cable companies to receive all or some cable channels.

Cable Box Required for All Channels
Required by some cable companies to receive all cable channels.

Cable Box Required for Some Channels
Required by some cable companies to receive premium channels like HBO, Showtime, etc.

CATV
Abbreviation used for Cable TV.

CH3/CH4 Switch
Located on components such as VCRs, satellite receivers, camcorders, etc. Lets you select the output channel of the component..

Coaxial Cable
A cable surrounded by a protective shielding to prevent interference.

Component
Any device such as a VCR, camcorder, laserdisc, satellite receiver, amplifier, etc.

Connection Panel
Name given to area on back of TV where you connect additional components. Also called "jack panel."

IN Jacks
Jacks on back of component to which the OUT jacks from other components are connected. Used to receive signals *from* that component.

INPUT Jacks
See IN Jacks.

IRD/TV Switch
Controls the signal coming out of the receiver's OUT TO TV jack. Lets you choose between either satellite signals or signals from whatever is connected to the receiver's CATV IN jack.

Jack Panel
See Connection Panel.

Jacks
See IN Jacks or OUT Jacks.

L/MONO (left/monaural) Jack
Used to connect a monaural component with only one audio jack. Sound comes through both TV's left and right speakers.

Line Input
Used on a VCR to switch between the VCR signal and the signal of the component connected to the AUDIO and VIDEO IN jacks of the VCR.

Line Mode
See Line Input.

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References

Glossary

Monaural
A component with only one audio channel.

Mono
Slang for monaural. *See Monaural.*

OUT Jacks
Jacks on back of component to which the IN jacks from other components are connected. Used to *send* signals *to* that component.

Output Channel of Cable Box
Channel to which TV is tuned to see the signal coming from the cable box.

Output Channel of VCR
Channel to which TV is tuned to see the signal coming from the VCR. *See CH3/CH4 Switch.*

Output Jacks
See OUT Jacks.

Picture-in-picture
A feature that allows you to watch two channels at same time, a small picture within a big picture. One of the pictures must come from a VCR or other component connected to the TV.

PIP
Abbreviation for picture-in-picture explained above.

Premium Channels
Scrambled cable channels such as HBO or Showtime that may require a cable box to unscramble.

S-VHS
A Super VHS recording format that improves the picture quality. It is found on some VCRs and camcorders.

S-VIDEO
Super Video, another name for S-VHS. The S-VIDEO jack on the TV lets you connect compatible S-Video components. *See S-VHS .*

Scrambled Channel
Some cable companies require their customers to rent a cable box to unscramble the channel for viewing.

Splitter
An accessory used to divide an incoming signal and send it to two separate components. *See picture on page 19.*

Stereo
A two-channel sound system using separate right and left channels.

TV/VCR Button
Controls the signal coming out of the VCRs OUT TO TV connector. It switches the signal between the VCR and TV. When this button is set to VCR, you see the picture from a channel on the VCR. When this button is set to TV, you see the signal from TV no matter what the VCR is doing. *See your VCR manual.*

TV/VCR Switch
See TV/VCR Button.

VCR
Video Cassette Recorder.

VCR Button
See "TV/VCR Button."

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If your TV needs service, please refer to the warranty in the TV User's Guide. Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

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